PDC SEARCH NO. 62-037

PDL- 44481

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PREVENTION OF DETERIORATION CENTER
DIVISION OF CHEMISTRY AND CHEMICAL TECHNOLOGY
NATIONAL ACADEMY OF SCIENCES–NATIONAL RESEARCH COUNCIL

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BIBLIOGRAPHY ON

MICROORGANISMS AFFECTING PETROLEUM AND PETROLEUM PRODUCTS, INCLUDING REPORTS ON SULFATE - REDUCING BACTERIA

Compiled by

Richard W. H. Lee

(Revised)

August 1, 1962

2101 Constitution Avenue

Washington 25, D. C.

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A-658(1) Leonard, John M., and Warren E. Weaver. Fungus inhibitive properties of organic compounds. Part 1. Hydrocarbons and their halides. U.S. Naval research laboratory. Report C-3289. May 1948.

A-1084 U.S. Wright air development center. Power plant laboratory. The biological deterioration and degradation of hydrocarbons, by Elias L. Margolin. U.S. Dept. of the air force. Technical report no. 6290. June 1951.

B-336 Gt. Brit. Admiralty. Corrosion committee. Memo: On anaerobic corrosion of mine shells in Malayan waters. Hull corrosion subcommittee. Report ACC/H105.3/46. 1946.

B-563 Gt. Brit. Dept. of scientific and industrial research. Report of the Chemistry research board, with the report of the director of the Chemical research laboratory for the year 1952. 1953.

F-469 Pochon, Jacques, and Yao-Tseng Tchan. Rôle de bactéries du cycle du soufre dans l'altération des pierres des monuments. Compt. rend., 226, 2188-2189. June 1948.

F-470 Pochon, Jacques, and Yao-Tseng Tchan. Recherches sur le rôle des microorganismes dans l'altération (dite "maladie des pierres") des façades des monuments à Paris. Compt. rend., 223, 695-696. Oct. 1946.

F-540 Pochon, J., O. Coppier, and Y.T. Tchan. Rôle des bactéries dans certaines altérations des pierres des monuments. Chimie & industrie, 65, 496-500. April 1951.

F-553 Boué, J., J. Ferrier, and M. Louis. La conservation des essences au contact de l'eau et de diverses parois. Rev. inst. franç. pétrole et Ann. combustibles liquides, 6, 305-311. Aug. 1951.

F-597 Banfi, Giulio. I microbi e la corrosione dei metalli; note critiche e sperimentali. Chimica e industria (Milan), 34(1), 17-21. 1952.

F-818 Senez, Jacques C. Recherches sur la corrosion biologique en milieu anaérobie par les bactéries sulfato-réductrices. Corrosion et Anti-Corrosion, 1, 131-132. Nov./Dec. 1953.

F-1026 Knösel, D., and W. Schwartz. Untersuchungen zur erdölbakteriologie. II. Über vorkommen und verhalten von mikroorganismen in erdöl. Arch. Mikrobiol., 20, 362-390. 1954.

F-1029 Gängel, G., and W. Schwartz. Untersuchungen zur erdölbakteriologie. III. Über das verhalten von mikroorganismen in erdölprodukten. Z. Hyg. Infectianskrankheiten, 140(1), 100-126. 1954.

F-1047 Temme, Th. Mikroben als Ursache der Zerstörung einer Bitumenisolierung. Bitumen, Teere, Asphalte, Peche, 6(5), 161-164. May 1955.

F-1078 Appert, J., and M. Louis. Note sur l'attaque des pétroles par les microorganismes. Rev. inst. franç. pétrole et Ann. combustibles liquides, 10, 345-348. May 1955.

PDC Search No. 62-037

F-1232 Bonetti, Elio M. Ricerche microbiologiche sui terreni petroliferi e ossidazione microbica degli idrocarburi. (Nota 2). Ricerca sci., 26, 779-802. March 1956.

G-272(4) Pennsylvania. University. Fungus fouling of optical surfaces. U.S. Office of emergency management. Contract OEMsr-205, interim report 13. Jan. 1945.

G-310 Zobell, Claude E., and Josephine D. Beckwith. The deterioration of rubber products by micro-organisms. Am. Water Works Assoc., J., 36, 439-452. April 1944.

G-472 Rudolph, W. Über die natürliche fungizidität von fetten und ölen. Naturwissenschaften, 32, 302. Oct. 1944.

G-552 Wilson, O.B. Anaerobic corrosion of buried iron pipes. Water & Water Eng., 48, 594-598. Nov. 1945.

G-1338 Corroding pipes and bacteria. Discovery, 8(4), 102. April 1947.

G-1454 Gilbert, P.T. Corrosion of copper, lead, and lead-alloy specimens after burial in a number of soils for periods up to 10 years. Inst. Metals, J., 73, 139-174. Nov. 1946.

G-1645 Starkey, Robert L., and Kent M. Wight. Anaerobic corrosion of iron in soil, with particular consideration of the soil redox potential as an indicator of corrosiveness. Am. Gas. Assoc., Proc., 25, 307-412. 1945.

G-1767 Starkey, Robert L. Sulfate reduction and the anaerobic corrosion of iron. Antonie van Leeuwenhoek, J. Microbiol. Serol., 12, 193-203. 1947.

G-2064 Rosenfeld, William D. Anaerobic oxidation of hydrocarbons by sulfate-reducing bacteria. J. Bact., 54, 664-665. 1947.

G-2114 ZoBell, Claude E. Action of microorganisms on hydrocarbons ... Bact. Revs., 10, 1-49. March-June 1946.

G-2686 Savolainen, Tapio. Studies on the growth-inhibition of certain anaerobic bacterial strains by organic compounds. Ann. Med. Exptl. Biol. Fenniae, 26(suppl. 2), 1-177. 1948.

G-3488 Hunter, J.B., H.F. McConomy, and R.F. Weston. Environmental pH as a factor in control of anaerobic bacterial corrosion. Corrosion, 4, 567-581. Dec. 1948.

G-3506 Butlin, K.R., Mary E. Adams, and Margaret Thomas. Sulphate-reducing bacteria and internal corrosion of ferrous pipes conveying water. Nature, 163, 26-27. Jan. 1949.

G-4200 Rogers, T. Howard. The promotion and acceleration of metallic corrosion by microorganisms. Inst. Metals, J., 75, 19-38. Sept. 1948.

G-4320 Walters, E.L., H.B. Minor, and D.L. Yabroff. Chemistry of gum formation in cracked gasoline. Ind. Eng. Chem., 41, 1723-1729. Aug. 1949.

G-5128 Westveer, W.M., and J.S. Brosier. Preventing bacterial growth in oil emulsions. Metal Progress, 56, 357-358. Sept. 1949.

G-5290 Johnson, A.L., D.E. Postlewaite, and S.C. Rittenberg. Bacteria, a factor in slip control. Am. Ceram. Soc., J., 32, 347-350. Nov. 1[illegible] 9.

G-5690 Miller, Lawrence P. Rapid formation of high concentrations of hydrogen sulfide by sulfate-reducing bacteria. Boyce Thompson Inst., Contribs., 15, 437-465. Oct./Dec. 1949.

G-5978 LaQue, Frank L. Protection of steel in off-shore structures. Drilling, 11(8), 29-31,102-103. June 1950.

G-6216 Corrosion of buried pipes; sulphate reducing bacteria. Water and Water Eng., 50, 203-204. April 1947.

G-6332 Underground corrosion of pipelines. Times Rev. Ind., 4(41), 20-22. June 1950.

G-6677 LeFebvre, F.J., and Lee F. Sudrabin. Some observations of the effect of cathodic protection on rust-tubercle pH. J. New England Water Works Assoc., 64, 309-322. Dec. 1950.

G-6982 Doig, Keith, and Aaron Wachter. Bacterial casing corrosion in the Ventura field. Corrosion, 7, 212-224. July 1951.

G-7472 The bacterial corrosion of iron and concrete. Mining J. (London), 234, 450-451. May 1950.

G-7499 Temple, Kenneth L., and Arthur R. Colmer. The autotrophic oxidation of iron by a new bacterium: Thiobacillus ferrooxidans. J. Bact., 62, 605-611. Nov. 1951.

G-7588 Greathouse, Glenn A., Carl J. Wessel, and Harold G. Shirk. Microbiological deterioration of manufactured materials. Ann. Rev. Microbiol., 5, 333-358. 1951.

G-7801 Parker, C.D. Mechanics of corrosion of concrete sewers by hydrogen sulfide. Sewage Ind. Wastes, 23, 1477-1485. Dec. 1951.

G-7856 Sprudt, C.J.P., and J.N. Wanklyn. Iron/sulphide ratios in corrosion by sulphate-reducing bacteria. Nature, 168, 951-952. Dec. 1951.

G-7990 Wormwell, F., and T.W. Farrer. Electrochemical studies of anaerobic corrosion in presence of sulphate-reducing bacteria. Chemistry & Industry (London), 108-109. 1952.

G-8222 U.S. Dept. of agriculture. Extension service. Soil treatment an aid in termite control. Leaflet 324. May 1952.

G-8347 Patterson, W.S. External ship corrosion due to bacterial action. North East Coast Inst. Engrs. & Shipbuilders, Trans., 68, 93-106. Dec. 1951.

PDC Search No. 62-037

G-8433 Stone, Robert W., and Claude E. ZoBell. Bacterial aspects of the origin of petroleum. Ind. Eng. Chem., 44, 2564-2567. Nov. 1952.

G-8533 Sonntag, W. Bacterial decomposition of soluble-oil emulsions. Lubrication Eng., 8, 234,260. Oct. 1952.

G-8613 Kulman, Frank E. Microbiological corrosion of buried steel pipe. Corrosion, 9, 11-18. Jan. 1953.

G-8772 Deuber, Carl G. The present status of bacterial corrosion investigations in the United States. Corrosion, 9, 95-99. March 1953.

G-8811 Allen, Fraser H., and Dan Fore, jr. Biological deterioration of polysulfide polymers employed as linings for gasoline storage tanks. Ind. Eng. Chem., 45, 374-377. Feb. 1953.

G-8840 Postgate, J.R. On the nutrition of Desulphovibrio desulphuricans. J. Gen. Microbiol., 5, 714-724. 1951.

G-8841 Postgate, J.R. The reduction of sulphur compounds by Desulphovibrio desulphuricans. J. Gen. Microbiol., 5, 725-738. 1951.

G-8889 Adams, Mary E., and T.W. Farrer. The influence of ferrous iron on bacterial corrosion. J. Applied Chem. (London), 3, 117-120. March 1953.

G-8952 Butlin, K.R. The bacterial sulphur cycle. Research (London), 6, 184-191. May 1953.

G-9195 Caldwell, J.A., and M.L. Lytle. Bacterial corrosion of offshore structures. Corrosion, 9, 192-196. June 1953.

G-9274 Grossman, Joy P., and John R. Postgate. Cultivation of sulphate-reducing bacteria. Nature, 171, 600-602. April 1953.

G-9332 Fabian, F.W., and Hilliard Pivnick. Growth of bacteria in soluble oil emulsions. Applied Microbiol., 1, 199-203. July 1953.

G-9415 Pivnick, Hilliard, and F.W. Fabian. Methods for testing the germicidal value of chemical compounds for disinfecting soluble oil emulsions. Applied Microbiol., 1, 204-207. July 1953.

G-9752 Wood, E.J. Ferguson. Marine bacteria in relation to economic processes. Australian J. Sci., 16, 87-91. Dec. 1953.

G-10074 Stutterheim, N., and J.H.P. van Aardt. The corrosion of concrete sewers and some possible remedies. S. African Ind. Chemist, 7, 185-195. Oct. 1953.

G-10165 Pivnick, Hilliard, W.E. Engelhard, and T.L. Thompson. The growth of pathogenic bacteria in soluble oil emulsions. Applied Microbiol., 2, 140-142. May 1954.

G-10350 Allred, R.C. The role of microorganisms in oil field water flooding operations; bacterial control on North Burbank unit water flood, Osage County, Oklahoma. Producers Monthly, 18(4), 18-22. Feb. 1954.

G-10610 Bryner, Loren C., and others. Microorganisms in leaching sulfide minerals. Ind. Eng. Chem., 46, 2587-2592. Dec. 1954.

G-10723 Minchin, L.T. Corrosion of pipes by bacteria. A European survey of microbiological anaerobic corrosion with special reference to experience in Low countries. Gas Age, 114(8), 45-47,101-102. Oct. 1954.

G-10801 Bennett, E.O., and H.O. Wheeler. Survival of bacteria in cutting oil. Applied Microbiol., 2, 368-371. Nov. 1954.

G-10829 Updegraff, D.M., and Gloria B. Wren. The release of oil from petroleum-bearing materials by sulfate-reducing bacteria. Applied Microbiol., 2, 309-322. Nov. 1954.

G-10941 Grossman, Joy P., and J.R. Postgate. The estimation of sulphate-reducing bacteria (D. desulphuricans). Soc. Appl. Bacteriol., Proc., 16, 1-9. April 1953.

G-11031 Bradley, William G. A study of galvanic corrosion in marine pseudo-sediments. Texas. Agricultural and mechanical college, College Station. A&M project 24-A, reference 54-52T; (ASTIA document) AD 45679. Sept. 1954.

G-11619 Reese, Elwyn T., Howard Cravetz, and Gabriel R. Mandels. Activity of fungi on oils. Farlowia, 4, 409-421. July 1955.

G-11713 Grossman, Joy P., and J.R. Postgate. The metabolism of malate and certain other compounds by Desulphovibrio desulphuricans. J. Gen. Microbiol., 12, 429-445. June 1955.

G-11735 Pi[illegible]dick, Hilliard. Pseudomonas rubescens, a new species from soluble oil emulsions. J. Bacteriol., 70, 1-6. July 1955.

G-12154 Cowling, J.E. Inert linings for bulk fuel storage tanks. BuDocks Tech. Digest, No. 61, 7-14. Nov. 1955.

G-12405 Corcoran, E.F., and J.S. [illegible]tredge. Pitting corrosion of reserve fleet ships. Paper presented at University of California, Marine corrosion and fouling conference, Scripps institution of oceanography, La Jolla, Calif., April 18-20, 1956.

G-12556 Ladd, J.N. The oxidation of hydrocarbons by soil bacteria. I. Morphological and biochemical properties of a soil diphtheroid utilising hydrocarbons. Australian J. Biol. Sci., 9, 92-104. Feb. 1956.

-12753 Wheeler, H.O., and E.O. Bennett. Bacterial inhibitors for cutting oil. Applied Microbiol., 4, 122-126. May 1956.

-12969 Sabina, L.F., and Hilliard Pivnick. Oxidation of soluble oil emulsions and emulsifiers by Pseudomonas oleovorans and Pseudomonas formicans. Applied Microbiol., 4, 171-175. July 1956.

-12977 Organic inhibition. Corrosion control and petroleum. Corrosion Technol., 3, 259-260. Aug. 1956.

-13045 ZoBell, Claude E. Marine microbiology. Scripps institution of oceanography, La Jolla, Calif. Reference 56-1; (ASTIA document) AD 82569. Jan. 1956.

-13119 Pivnick, H., and others. Current research in the bacteriology of soluble oil emulsions. Lubrication Eng., 12, 310-315. Sept.-Oct. 1956.

-13147 Bennett, E.O. Control of bacterial spoilage of emulsion oils. Soap Chem. Specialties, 32(10), 47-49. Oct. 1956.

-13259 Bennett, E.O. Control of bacterial spoilage of emulsion oils, part 2. Soap Chem. Specialties, 32(11), 46-48,155. Nov. 1956.

-13461 Tant, C.O., and E.O. Bennett. The isolation of pathogenic bacteria from used emulsion oils. Applied Microbiol., 4, 332-338. Nov. 1956.

-13463 Samuel-Maharajah, R., and others. The coexistence of pathogens and pseudomonads in soluble oil emulsions. Applied Microbiol., 4, 293-299, Nov. 1956.

13479 Hartsell, S.E. Microbiological process report. Maintenance of cultures under paraffin oil. Applied Microbiol., 4, 350-355. Nov. 1956.

13547 Pivnick, H., and others. Biological oxidation of soluble oil emulsions. Lubrication Eng., 11, 96. March-April 1955.

13617 Dworkin, Martin, and J.W. Foster. Studies on Pseudomonas methanica (Söhngen) Nov. Comb. J. Bacteriol., 72, 646-659. Nov. 1956.

2035 Morgan, John D., and Russell E. Lowe. Corrosion inhibiting compounds. U.S. Pat. 2,566,068; Aug. 28, 1951.

2201 Strawinski, Raymond J. Purification of substances by microbial action. U.S. Pat. 2,574,070; Nov. 6, 1951.

3356 Putman, John Harold, James Scott, and Denis William Ervine. Noncorrosive oil compositions. U.S. Pat. 2,610,151; Sept. 9, 1952.

4052 Harris, Rhett C., and Raymond J. Strawinski. Preservation of petroleum in storage. U.S. Pat. 2,680,058; June 1, 1954.

09 Bearstecher, Ernest, jr. Petroleum microbiology. An introduction to microbiological petroleum engineering. Houston, Texas, Elsevier press, inc., 1954.

PDC Search No. 52-037

R-445 Stephenson, Marjory. Bacterial metabolism. Third edition. London, New York, Toronto; Longmans,Green, 1949.

R-524 Thimann, Kenneth V. The life of bacteria. Their growth, metabolism, and relationships. New York, Macmillan, 1955.

PDL-30006 Bakanauskas, Sam. Bacteriological activity in JP-4 fuel storage tanks. U.S. Wright air development center. Technical memorandum WCRT TM 57-2, supplement 2. March 1957.

PDL-30293 Starkey, Robert L. The relationship of sulfate reducing bacteria to iron corrosion in the marine environment. Intern. Congr. Microbiol., Rept. Proc. 6th Congr., 3, 326-327. Sept. 1953.

PDL-30297 Purifying chemically polluted waters. Ind. Eng. Chem., 48, 1403-1458. Sept. 1956.

PDL-30448 ZoBell, Claude E., and Richard Y. Morita. Barophilic bacteria in some deep sea sediments. J. Bacteriol., 73, 563-568. April 1957.

PDL-30453 Bennett, E.O. The role of sulfate-reducing bacteria in the deterioration of cutting emulsions. Lubrication Eng., 13, 215-219. April 1957.

PDL-30479 Campbell, L. Leon, jr., Hilmer A. Frank, and Elizabeth R. Hall. Studies on thermophilic sulfate reducing bacteria. 1. Identification of Sporovibrio desulfuricans as Clostridium nigrificans. J. Bacteriol., 73, 516-521. April 1957.

PDL-30589 McCallan, S.E.A., and Lawrence P. Miller. Equimolar formation of carbon dioxide and hydrogen sulfide when fungus tissue reduces sulfur. Boyce Thompson Inst., Contribs., 18, 497-506. April/June 1957.

PDL-30842 Pivnick, Hilliard., and C.K. Fotopoulos. Disinfection of soluble oil emulsions. Lubrication Eng., 13, 151-156. March 1957.

PDL-30842 Pivnick, Hilliard, and L.R. Sabina. Studies of Aeromonas formicans Crawford comb. Nov. from soluble oil emulsions. J. Bacteriol., 73, 247-252. Feb. 1957.

PDL-30848 Butlin, K.R. Some malodorous activities of sulphate-reducing bacteria. Soc. Appl. Bacteriol., Proc., 12(2), 39-42. 1949.

PDL-31066 Jones, Galen E., and Robert L. Starkey. Fractionation of stable isotopes of sulfur by microorganisms and their role in deposition of native sulfur. Applied Microbiol., 5, 111-118. March 1957.

PDL-31082 Snoke, Lloyd R. Marine tests of organic materials. Bell Labs. Record, 35, 287-292. Aug. 1957.

PDL-31125 National research council. Prevention of deterioration center. Scientific advisory committee. Metal metabolism and microbiological deterioration. National research council. Publication 514. June 1956.

PDC Search No. 62-037

PDL-31394 Smoke, Lloyd R. Resistance of organic materials and cable structures to marine biological attack. Bell System Tech. J., 36, 1095-1127. Sept. 1957.

PDL-31413 Vanderbilt (R.T.) company, inc., New York, N.Y. Petroleum dept. Vanderbilt petroleum additives. April 1957.

PDL-31884 Ellis, Lee F., and others. Oxidation of components of soluble oils. Applied Microbiol., 5, 345-348. Nov. 1957.

PDL-32095 Luchterowa, A. Geomikrobiologia w przemyśle naftowym. Acta Microbiol. Polon., 2, 151-153. 1953.

PDL-32096 Obojska, K. Rozkład weglowodorów nasyconych i nienasyconych przez mykobakterie saprofityczne. Acta Microbiol. Polon., 2, 129-132. 1953.

PDL-32137 Luchter, A. Zdolnosc wykorzystywania roznych weglowodorow przez bakterie terenow roponosnych. Acta Microbiol. Polon., 4, 271-279. 1955.

PDL-32250 ZoBell, Claude E. Part played in bacteria in petroleum formation. J. Sediment. Petrol., 22(1), 42-49. March 1952.

PDL-32265 Bakanauskas, Sam. Bacterial activity in JP 4 fuel. U.S. Wright air development center. Technical report 58-32; (ASTIA document) AD 151034. March 1958.

PDL-32362 Tsuneishi, N., and A. Goetz. A method for the rapid cultivation of Desulfovibrio aestuarii on filter membranes. Applied Microbiol., 6, 42-44. Jan. 1958.

PDL-32445 Rigdon, J.H., and C.W. Beardsley. Corrosion of concrete by autotrophes. Corrosion, 14, 60-62. April 1958.

PDL-32549 Alabama. University. Science translation service. An investigation of the effect of anticorrosive admixtures to oils by the method of radioactive tracers, by Iu.S. Zaslavskii, S.E. Krein, and R.N. Shneerova. U.S. Bureau of ships. Translation 613. Oct. 1956.

PDL-32601 Sanin, P.I., L.F. Cherniavskaia, and I.F. Foit. (Method of determining lubricant corrosiveness). Zavodskaya Lab., 23, 696-697. June 1957.

PDL-32771 Kolesnik, Z.A., and N.I. Shmonova. (On the study of oil variation in anaerobic conditions under the influence of bacteria of the Pseudomonas genus). Akad. Nauk S.S.S.R., Doklady, 115, 1197-1199. 1957.

PDL-32810 ZoBell, Claude E., Frederick D. Sisler, and Carl H. Oppenheimer. Evidence of biochemical heating in Lake Mead mud. J. Sediment. Petrol., 23, 13-17. March 1953.

PDC Search No. 62-037

PDL-32851 Dostálek, Milan, Miloslav Staud, and Alena Rosypalová. Pusobeni mikroorganismu na naftové uhlovodíky. Ceskoslov. mikrobiol., 2, 43-48. 1957.

PDL-32893 Bahr, H., and W. Schwartz. Untersuchungen zur Okologie farbloser fädiger Schwefelmikroben. Biol. Zentr., 75, 451-464. 1956.

PDL-32900 Solti, M., and J. Horvath. Über den Einfluss anaerober Bakterien auf den Strombedarf im Erdreich verlegter, kathodisch geschützter Anlagen. Werkstoffe u. Korrosion, 9, 283-291. May 1958.

PDL-32956 Knowles, E., and T. White. The protection of metals with tannins. Oil & Colour Chemists' Assoc., J., 41, 10-23. Jan. 1958.

PDL-33007 Kuznetsov, S.I., and Z.P. Telegina. (Some data on the physiology of propane-oxidizing bacteria). Mikrobiologiya, 26, 513-518. Sept./Oct. 1957.

PDL-33245 Littlewood, Dorothy, and J.R. Postgate. Sodium chloride and the growth of Desulphovibrio desulphuricans. J. Gen. Microbiol., 17, 378-389. 1957.

PDL-33264 Bryner, L.C., and A.K. Jameson. Microorganisms in leaching sulfide minerals. Applied Microbiol., 6, 281-287. July 1958.

PDL-33432 Lilly (Eli) and company, Indianapolis, Ind. Agricultural and industrial products division. Bacterial inhibition in soluble oil emulsions, by W.N. Cannon. Product information bulletin. (n.d.)

PDL-33439 Parker, W.D., and A.G. Wilkie. Anti-corrosion coatings for buried pipes. IN Industry fights corrosion; Proceedings of the Corrosion convention, sponsored by Corrosion technology, Oct. 1957, p. 98-105.

PDL-33446 Úlehla, Jiří, Milos Spurný, and Milan Dostálek. Pouzití teckovací reakce na sirovodik pri sledování síranové redukce. Ceskoslov. mikrobiol., 1, 267-271. 1956.

PDL-33447 Dostálek, Milan, and Milos Spurný. Kultivacní charakteristiky desulfurikacních bakterii z naftových lozisek. Ceskoslov. mikrobiol., 1, 158-164. 1956.

PDL-33465 Abd-El-Malek, Y., and S.G. Rizk. Counting of sulphate-reducing bacteria in mixed bacterial populations. Nature, 182, 538. Aug. 1958.

PDL-33518 Spurný, Milos, Milan Dostálek, and Jiří Úlehla. Metoda kvantitativního stanovení desulfurikacních bakterií. Ceskoslov. mikrobiol., 1, 272-281. 1956.

PDL-33522 Ben'kovskii, V.G., T.M. Bogoslavskaya, and E.A. Drizo. (Some causes of deterioration of anticorrosive bituminous coatings). Akademiia nauk Kazakhskoi SSR, Alma-Alta. Institut nafti. Trudy, 1, 65-75. 1956.

PDC Search No. 62-037

PDL-33773 Starkey, Robert L. The general physiology of the sulfate reducing bacteria in relation to corrosion. Producers Monthly, 22(9), 12-30. June 1958.

PDL-33875 Littlewood, Dorothy, and J.R. Postgate. On the osmotic behaviour of Desulphovibrio desulphuricans. J. Gen. Microbiol., 16, 596-603. June 1957.

PDL-33927 Tant, C.O., and E.O. Bennett. The growth of aerobic bacteria in metal-cutting fluids. Applied Microbiol., 6, 388-391. Nov. 1958.

PDL-33928 Ishimoto, Makoto, and others. Biochemical studies on sulfate-reducing bacteria. 7. Purification of the cytochrome of sulfate-reducing bacteria and its physiological role. J. Biochem. (Japan), 44, 413-423. July 1957.

PDL-33965 Spurný, Milos, and Milan Dostálek. Stanovení pruvodní mikroflory desulfurikačních bakterií ve vodách sirovodíkových pramenu. Preslia, 29, 125-131. 1957.

PDL-34221 Anderson, Kenneth E., and others. The development of new bactericides and flood water treatment based upon the physiology of the sulfate reducing bacteria. Producers Monthly, 22(10), 10-25. Aug. 1958.

PDL-34313 Gromovich, V.A., and others. (A contribution to the inhibition of development of the sulphate-reducing bacteria in the oil field of the Kalinovka layer). Mikrobiologiya, 26, 330-337. May/June 1957.

PDL-34355 Postgate, John. A diagnostic reaction of Desulphovibrio desulphuricans. Nature, 183, 481-482. Feb. 1959.

PDL-34410 Jaegers (Kurt). Stabile, besonders gegen Kleinlebewesen geschützte, wässrige Bohrölemulsionen. Ger. Pat. 941091; April 5, 1956.

PDL-34456 Ishimoto, Makoto, Tatsuhiko Yagi, and Masaru Chiraki. Biochemical studies on sulfate-reducing bacteria. 8. The function of cytochrome of sulfate-reducing bacteria in decomposition of formate and reduction of sulfur and hydroxylamine. J. Biochem. (Japan), 44, 707-714. Nov. 1957.

PDL-34490 Egorova, A.A., and Z.P. Deriugina. (A new method of producing microscopic preparations from petroleum). Mikrobiologiya, 27, 501-502. July/Aug. 1958.

PDL-34677 Hirabayashi, Seishi. Studies about the relation of micro-oroanisms (sic) with fats & oils. Hyogo Noka Daigaku Kenkyu Hokoku, 3(1), 13-26. 1957.

PDL-35020 Williams, O.B. A comparison of the susceptibility of various strains of sulfate reducing bacteria to the action of bactericides. Producers Monthly, 22(10), 12-14. Aug. 1958.

PDC Search No. 62-037

PDL-35069 Isenberg, D.L., and E.O. Bennett. Bacterial deterioration of emulsion oils. 2. Nature of the relationship between aerobes and sulfate-reducing bacteria. Applied Microbiol., 7, 121-125. March 1959.

PDL-35076 Guynes, G.J., and E.O. Bennett. Bacterial deterioration of emulsion oils. 1. Relationship between aerobes and sulfate-reducing bacteria in deterioration. Applied Microbiol., 7, 117-121. March 1959.

PDL-35158 Ishimoto, Makoto, and others. Biochemical studies on sulfate-reducing bacteria. 3. Sulfate reduction by cell suspension. J. Biochem. (Japan), 41, 537-546. 1954.

PDL-35159 Ishimoto, Makoto, Jiro Koyama, and Yutaka Nagai. Biochemical studies on sulfate-reducing bacteria. 4. The cytochrome system of sulfate-reducing bacteria. J. Biochem. (Japan), 41, 763-770. 1954.

PDL-35174 Browning, B.H., and others. Inactivation of organo-mercurial fungicides in groundwood pulp made from logs stored in salt water, and the possible role of sulphur compounds. Nature, 183, 1346-1347. May 1959.

PDL-35184 Ishimoto, Makoto, Jiro Koyama, and Yutaka Nagai. Biochemical studies on sulfate-reducing bacteria. 4. Reduction of thiosulfate by cell-free extract. J. Biochem. (Japan), 42, 41-53. Jan. 1955.

PDL-35188 Guynes, G.J., and E.O. Bennett. The sensitivity of sulfate-reducing bacteria to antibacterial agents. (The mercurials). Producers Monthly, 23(1), 15-17. Nov. 1958.

PDL-35845 Caldwell, Joseph A., and Melba L. Lytle. Prevention of corrosion. U.S. Pat. 2,906,708; Sept. 29, 1959.

PDL-35851 Harris, J.O. Microbiological studies reveal significant factors in oil and gas pipeline back-filled ditches. Kansas. Agricultural experiment station, Manhattan. Dept. of bacteriology. Technical bulletin 102. May 1959.

PDL-35877 Stewart, James E., and others. Bacterial hydrocarbon oxidation. I. Oxidation of n-hexadecane by a gram-negative coccus. J. Bacteriol., 78, 441-448. Sept. 1959.

PDL-35878 Strawinski, R.J. A microbiological method of prospecting for oil. World Oil, 141(6), 104,106,109-110,112,115. Nov. 1955.

PDL-35879 Hutton, William E., and Claude E. ZoBell. The occurrence and characteristics of methane-oxidizing bacteria in marine sediments. J. Bacteriol., 58, 463-473. Oct. 1949.

PDL-35880 Davis, John B. Studies on soil samples from "paraffine dirt" bed. Am. Assoc. Petrol. Geologists, Bull., 36, 2186-2188. Nov. 1952.

PDL-35881 Stewart, James E., and R.E. Kallio. Bacterial hydrocarbon oxidation. II. Ester formation from alkanes. J. Bacteriol., 78, 726-730. Nov. 1959.

PDC Search No. 62-037

PDL-35882 Strawinski, R.J., and J.A. Tortorich. Preliminary studies of methane-oxidizing bacteria and their possible role in oil-prospecting. Bacteriol. Proc., 55, 27. 1955.

PDL-35883 Strawinski, Raymond J. Prospecting. U.S. Pat. 2,665,237; Jan. 5, 1954.

PDL-35884 Zobell, Claude E. Bacteriological process for treatment of fluid-bearing earth formations. U.S. Pat. 2,413,278; Dec. 24, 1946.

PDL-35885 Taggart, Millard S., jr. Oil prospecting method. U.S. Pat. 2,234,637; March 11, 1941.

PDL-36034 Mackenzie, K. The metabolism of Vibrio desulfuricans in anaerobic petroliferous formations. Biochem. J., 51, xxiv-xxv. 1952.

PDL-36077 Horvath, J., and M. Solti. Beitrag zum Mechanismus der anaeroben mikrobiologischen Korrosion der Metalle im Boden. Werkstoffe u. Korrosion, 10, 624-630. Oct. 1959.

PDL-36296 Hodge, Edward B. Petroleum lubricants stabilized against hydrocarbon metabolizable microorganisms. U.S. Pat. 2,913,414; Nov. 17, 1959.

PDL-36427 Microbial attack on or formation of hydrocarbons. Abstracts. (n.d.)

PDL-36555 Leonard, John M. Fuel fungi. Naval Research Revs., 16-18. Feb. 1960.

PDL-36600 Pelcak, Emil Jerry, and Albert C. Dornbush. Process water treatment. U.S. Pat. 2,906,595; Sept. 29, 1959.

PDL-36618 Abd-El-Malek, Y., and S.G. Rizk. Culture of Desulphovibrio desulphuricans. Nature, 185, 635-636. Feb. 1960.

PDL-36732 Jet fuel? Delicious, say fungi. Machine Design, 32(7), 12. March 1960.

PDL-36934 Beck, Jay V. A ferrous-ion-oxidizing bacterium. 1. Isolation and some general physiological characteristics. J. Bacteriol., 79, 502-509. April 1960.

PDL-37239 Shaposhnikov, V.V., E.N. Kondratieva, and V.D. Fedorov. A new species of green sulphur bacteria. Nature, 187, 167-168. July 1960.

PDL-37270 Wolfson, L.L. Microbiology in secondary recovery systems. Corrosion, 16, 132-134. June 1960.

PDL-37271 Prince, Herbert N. Specific inhibition of obligate anaerobes. Nature, 186, 816-818. June 1960.

PDL-37423 Harris, J.O. Soil micro-organisms in relation to corrosion and cathodic protection. Corrosion Technol., 7, 250-253. Aug. 1960.

PDL-37487 Harris, John O. Bacterial activity at the bottom of back-filled pipe line ditches. Corrosion, 16, 131-136. March 1960.

PDL-37588 Harris, J.O. Soil microorganisms in relation to cathodically protected pipe. Corrosion, 16, 113-120. Sept. 1960.

PDL-37658 U.S. Central intelligence agency, tr. Research on the fungicidal properties of shale tars, by G.Ye. Shaltyko, and L.I. Pshedetskaya. Scientific information report for June 3, 1960, p. 14.

PDL-37809 Summer, W. Microbially induced corrosion. Corrosion Technol., 7, 287-288. Sept. 1960.

PDL-37869 Klemme, Dorothea E., and John M. Leonard. Microbial inhibitors for systems of jet fuel and water. U.S. Naval research laboratory. Report 5501. Aug. 1960.

PDL-37915 Bennett, E.O., and R.H. Bauerle. The sensitivities of mixed populations of bacteria to inhibitors. Australian J. Biol. Sci., 13, 142-149. 1960.

PDL-38415 Ulanovskii, I.B., L.A. Rozenberg, and Yu. M. Korovin. (The effect of bacteria upon the electrode potential of stainless steels in sea water). Mikrobiologiya, 29, 281-286. 1960.

PDL-38623 Baudon, Lucien. Le rôle des micro-organismes dans certains phénomènes de corrosion. Industrie Chimique Belge, 23, 983-990. Sept. 1958.

PDL-38654 DeGray, R.J., and L.N. Killian. Bacterial slime and corrosion in petroleum product storage. Ind. Eng. Chem., 52, 74A-76A. Dec. 1960.

PDL-38730 Ivanov, M.V. (Microbiological studies in the carpat sulphur deposits. 1. Studies of the Nemirov and Lubens deposits). Mikrobiologiya, 29, 109-113. Jan./Feb. 1960.

PDL-38961 Postgate, John. Sulphate reduction by bacteria. IN Annual Review of Microbiology, Vol. 13, 505-520. 1959. Edited by Charles E. Clifton.

PDL-39166 Buck, John D., and Robert C. Cleverdon. Hydrogen sulphide production by some agarolytic marine bacteria. Can. J. Microbiol., 6, 594-595. Oct. 1960.

PDL-39337 Ginzburg-Karagicheva, T.L. (Microbiology of petroleum). Priroda, 47(3), 26-31. March 1958.

PDL-39784 Bennett, E.O., and H.N. Futch. Nitroparaffine inhibitors for cutting fluids. Lubrication Eng., 16, 228-230. May 1960.

PDL-39857 ZoBell, Claude E. Marine microbiology. Final report. Scripps institution of oceanography, LaJolla, Calif. Reference 60-14; (ASTIA document) AD 236847. Jan. 1960.

PDL-39884 Minutes, meeting of Ad Hoc group on biological and fungal growths in fuels. Jan. 1961. Held 26 January 1961, at the Pentagon, Washington, D.C.

PDC Search No. 62-037

PDL-40348 Hitzman, Donald O., and Ralph P. Schneider. Microbiological corrosion protection by germicidal zone and protective coating. U.S. Pat. 2,979,377; April 11, 1961.

PDL-40352 Griffith, J.R. Fungicides for concrete fuel tank linings (type 53). U.S. Naval research laboratory. Memorandum report 1151. March 1961.

PDL-40400 Minchin, Leslie T. Bacterial corrosion of underground pipes. Coke and Gas (England), 22, 392-397,411. Sept. 1960.

PDL-40608 Watkins, F.M. Microorganisms affect oil. Dec. 1960.

PDL-40808 Starkey, Robert L. Sulfate-reducing bacteria - physiology and practical significance. 1960/61. Lectures on theoretical and applied aspects of modern microbiology are sponsored jointly by the Amer. Cyanamid Co., Chas. Pfizer and Co., and Merck and Co.

PDL-41106 Andreyevskiy, I.L. (Bacterial action on petroleum stratum). Priroda, 47(10), 90-91. Oct. 1958.

PDL-41206 Birkholz, Donald O., Morris R. Rogers, and Arthur M. Kaplan. The microbiological deterioration of hydrocarbons and the related degradation of equipment used for the storage, distribution and handling of petroleum products; a selected bibliography. U.S. Quartermaster corps. Quartermaster research and engineering command, Natick, Mass. Chemicals and plastics division. Microbiological deterioration series. No. 5. June 1961.

PDL-41247 Sharpley, J. Miles. Microbiological corrosion in water floods. Corrosion, 17, 92-96. Aug. 1961.

PDL-41423 U.S. Quartermaster corps. Quartermaster research and engineering center, Natick, Mass. Chemicals and plastics division. Prevention of microbiological deterioration of military materiel. Sixth progress report. Aug. 1961.

PDL-41569 Ambrose, Henry A. Treatment of distillate fuel oils with aqueous anti-microbial agents. U.S. Pat. 2,975,043; March 14, 1961.

PDL-41570 Gulf research and development company, Pittsburgh, Pa. Development of microbiological sludge inhibitors, by Arthur V. Churchill, and William W. Leathen. U.S. Dept. of the air force. Aeronautical systems division, Wright-Patterson Air Force Base, Ohio. ASD technical report 61-193. June 1961.

PDL-41594 Summers, Claude R., jr. Fuel oil compositions containing antimicrobial agents. U.S. Pat. 2,975,042; March 14, 1961.

PDL-41642 Matthews, A.D., and P.N. Karnaukhov. A simple technique for the cultivation of anaerobes. Can. Med. Assoc. J. 84, 793-794. April 1961.

PDL-41699 Skipp, B.O. Corrosion and site investigation. Corrosion Technol., 8, 269-277,296. Sept. 1961.

PDL-41704 Booth, G.H. A study of the effect of tannins on the growth of sulphate-reducing bacteria. J. Applied Bacteriol., 23, 125-129. 1960.

PDL-41959 Erisson, G. Lee, and Margaret L. Wulf. Investigation of corrosion and microbiological degradation in integral fuel tanks. Boeing airplane company. Wichita division, Wichita, Kansas. Document no. D3-3629. Feb. 1961.

PDL-41986 Rozanova, E.P., and L.D. Shturm. Study of amino acids released into the medium by microorganisms growing on petroleum with reference to the genesis of ozokerite-like bitumens. Microbiology, 29, 513-516. March-April 1961.

PDL-42038 Lyalikova, N.N. The physiology and ecology of Thiobacillus ferrooxidans in relation to its role in the oxidation of sulfide ores (review). Microbiology, 29, 556-560. March-April 1961.

PDL-42107 Skalon, I.S. A new method for separating aerobic and anaerobic species of microorganisms. Microbiology, 29, 657-658. May/June 1961.

PDL-42122 Stormont, D.H. Do jet fuel bacteria cause slime, corrosion? Oil Gas J., 59(27), 82-84. July 1961.

PDL-42138 Firusaka, C. Sulphate transport and metabolism by Desulphovibrio desulphuricans. Nature, 192, 427-429. Nov. 1961.

PDL-42419 Silverman, Melvin P., Martin H. Rogoff, and Irving Wender. Bacterial oxidation of pyritic materials in coal. Applied Microbiol., 9, 491-496. Nov. 1961.

PDL-42625 Jones, Galen E., and Robert L. Starkey. Surface-active substances produced by Thiobacillus thiooxidans. J. Bacteriol., 82, 788-789. Nov. 1961.

PDL-42658 Legator, Marvin. Slimicide. U.S. Pat. 3,006,807; Oct. 31, 1961.

PDL-42666 Lagarde, E. Étude du pouvoir bactériostatique et bactéricide de quelques composés vis-a-vis d'une souche pure de bactéries sulfatoréductrices. Ann. Inst. Pasteur, 100, 368-376. 1961.

PDL-42735 Pritula, V.A. [The biocorrosion of underground pipelines]. Gazovaya Prom., 6(8), 46-50. 1961.

PDL-42812 Allred, R.C., T.A. Mills, and H.B. Fisher. Bacteriological techniques applicable to the control of sulfate reducing bacteria in water flooding operations. Producers Monthly, 19(2), 31-32. Dec. 1954.

PDL-42937 Mityusheva, N.M., A.I. Latynina, Z.G. Razumovskaya, L.V. Sergeev, and M.S. Rodionova. [Preventing biological deterioration of oils for optical instruments]. U.S.S.R. Pat. 136,504; March 14, 1961.

PDC Search No. 62-037

PDL-42991 Gyrath, F.W., F.R. Dunn, jr., and A.C. Smith, jr. One-day stability test for distillate fuel oils. Am. Chem. Soc., Div. Petrol. Chem., Gen. Papers (Preprints), 3(3), 135-144. Aug. 1958.

PDL-43017 DeGray, R.J., and L.N. Killian. Bacterial contamination of refined petroleum products. Am. Chem. Soc., Div. Petrol. Chem., Gen. Papers (Preprints), 5(1), 43-51. March 1960.

PDL-43028 Sultzer, Barnet M. Oxidative activity of psychrophilic and mesophilic bacteria on saturated fatty acids. J. Bacteriol., 82, 492-497. Oct. 1961.

PDL-43034 Akagi, J.M., and L. Leon Campbell. Studies on thermophilic sulfate-reducing bacteria. II. Hydrogenase activity of Clostridium nigrificans. J. Bacteriol., 82, 927-932. Dec. 1961.

PDL-43035 Peck, H.D., jr. Enzymatic basis for assimilatory and dissimilatory sulfate reduction. J. Bacteriol., 82, 933-939. Dec. 1961.

PDL-43049 Bennett, E.O., G.J. Guynes and D.L. Isenberg. The sensitivity of sulfate-reducing bacteria to antibacterial agents (phenolic compounds). Producers Monthly, 23(1), 18-19. Nov. 1958.

PDL-43050 Bennett, E.O., G.J. Guynes and D.L. Isenberg. The sensitivity of sulfate-reducing bacteria to antibacterial agents---III. The nitroparaffin derivatives. Producers Monthly 24(5), 26-27. March 1960.

PDL-43077 Söhngen, N.L. Benzin, Petroleum, Paraffinöl und Paraffin als kohlenstoff- und Energiequelle für Mikroben. Centr. Bakteriol. Parasitenk, Abt. II., 37, 595-609. May 1913.

PDL-43078 Münz, E. Zur Physiologie der Methanbakterien. Centr. Bakteriol. Parasitenk, Abt. II., 51, 380. Aug. 1920.

PDL-43080 Tausz, Jenö, and Marta Peter. Neue Methode der Kohlenwasserstoffanalyse mit Hilfe von Bakterien. Centr. Bakteriol. Parasitenk, Abt. II. 49, 497-554, 3 plates. Dec. 1919.

PDL-43082 Allen, Fraser H. The microbiological aspects of gasoline inhibitors. Inst. Petroleum, J., 31, 9-15. Jan. 1945.

PDL-43083 Tausson, W.O. Über die Oxydation der Benzolkohlenwasserstoffe durch Bakterien. Planta, 7, 735-758. May 1929.

PDL-43084 Lipman, C.B., and L. Greenberg. A new autotrophic bacterium which oxidises ammonia directly to nitrate and decomposes petroleum. Nature, 129, 204-205. Feb. 1932.

PDL-43085 Peck, H.D., jr. The role of adenosine-5'-phosphosulfate in the reduction of sulfate to sulfite by Desulfovibrio desulfuricans. J. Biol. Chem., 237, 198-203. Jan. 1962.

PDC Search No. 62-037

PDL-43109 Cowan, S.T., and K.J. Steel. A device for the identification of microorganisms. Lancet, 1, 1172-1173. May 1960.

PDL-43176 Hata, Yoshihiko. Relation between the activity of marine sulfate-reducing bacteria and the oxidation-reduction potential of the culture media (2). Shimonoseki College of Fisheries, J., 10(1), 57-77. Oct. 1960.

PDL-43207 Seliber, G.L., and L.V. Dobrovol'skaya. Prolonged retention by bacteria of the ability to decompose fat. Microbiology, 30, 48-49. July/Aug. 1961.

PDL-43248 U.S. Armed services technical information agency. Compilation of references on microbiological contamination of fuels, compiled by Ruth B. Henery. (ASTIA document) AD 266000. Nov. 1961.

PDL-43355 Stone, R.W., A.G.C. White, and M.R. Fenske. Microorganisms attacking petroleum and petroleum fractions. J. Bacteriol., 39, 91. 1940.

PDL-43356 Bushnell, L.D. and H.F. Haas. The utilization of certain hydrocarbons by microorganisms. J. Bacteriol., 41, 653-673. 1941.

PDL-43357 Hopkins, Sydney John, and Albert Charles Chibnall. Growth of Aspergillus versicolor on higher paraffins. Biochem. J., 26, 133-142. 1932.

PDL-43470 Upadhyay, J., and J.L. Stokes. Anaerobic growth of psychrophilic bacteria. J. Bacteriol., 83, 270-275. Feb. 1962.

PDL-43525 Carlson, V., E.O. Bennett, and J.A. Rowe, jr. Microbial flora in a number of oilfield water-injection systems. Soc. Petrol. Engrs., J., 1, 71-80. June 1961.

PDL-43667 Barnes, G.L., and R.S. Zerkel. Effectiveness of mixtures of pyridinethiol derivatives and PCNB (terraclor) for control of a complex of soil fungi. Plant Disease Reptr., 45, 426-431. June 1961.

PDL-43822 Harris, J.O. Soil conditions, bacteria, and corrosion. For presentation at the March 1962 Annual Convention National Association of Corrosion Engineers, Kansas City, Missouri. 1962.

PDL-43823 Birkholz, Donald O., Morris R. Rogers and Arthur M. Kaplan. The microbiological deterioration of hydrocarbons and the related degradation of equipment used for the storage, distribution and handling of petroleum products; a selected bibliography. U.S. Quartermaster corps. Quartermaster research and engineering center, Natick, Mass. Chemicals and plastics division. Microbiological deterioration series no. 5, Supplement no. 1. March 1962.

PDL-44027 Developments in industrial microbiology. Vol. 3. New York, Plenum, 1962. Proceedings of the Eighteenth general meeting of the Society for industrial microbiology, held at Lafayette, Indiana, Aug. 27-31, 1961.

PDL-44039 Schab, Henry W. Problems associated with water contaminated jet fuels. Am. Soc. Naval Engrs. J., 72, 41-59. Feb. 1960.

PDL-44118 Wheeler, H.O., and E.O. Bennett. Survival times of bacteria in heavy and emulsion type cutting oils. Texas Repts. Biol. Med., 12, 1057-1058. Winter 1954.

PDL-44126 Harada, T., and B. Spencer. The effect of sulphate assimilation on the induction of arylsulphatase synthesis in fungi. Biochem. J., 82, 148-156. Jan. 1962.

PDL-44127 Romanenko, V.I. Use of the autoradiographic method for a quantitative assay of methane-oxidizing bacteria. Microbiology, 30, 292-293. Sept./Oct. 1961.

PDL-44128 Arenshtein, A.M. Role of Azotobacter in biological purification of petroleum waste waters. Microbiology, 30, 269-271. Sept./Oct. 1961.

PDL-44129 Ivanov, M.V. Microbiological studies of Carpathian sulfur deposits. V. Occurrence of sulfate-reducing bacteria in sedimentary rocks composing sulfur deposits. Microbiology, 30, 428-430. Nov./Dec. 1961.

PDL-44130 Bogdanova, V.M. Utilization of nitrogenous petroleum compounds by microorganisms under anaerobic conditions. Microbiology, 30, 265-266. Sept./Oct. 1961.

DL-44298 Kellogg (M.W.) company, New York, N.Y. Preliminary design study for a jet fuel purification center for aircraft carriers, by Walter D. Schmidt and Warren C. Shreiner. Report no. CE-57-178; ... [ASTIA document] AD 144935. Aug. 1957.

DL-44299 Purolator products, inc., Rahway, N.J. A general study of diverse filtration phenomena with possible applications to aircraft fuel filtration, by Richard G. Seed and Arthur A. Fowle. U.S. Wright air development center. Technical report 54-181; ... [ASTIA document] AD 33464. Nov. 1952.

DL-44342 Nelson, E.E. Discussion [of PDL-41247]; Microbiological corrosion in waterfloods, by J.M. Sharpley. Corrosion, 18(6), 247t-248t. June 1962.

DL-44482 Tiller, A.K., and G.H. Booth Polarization studies of mild steel in cultures of sulphate-reducing bacteria. Part 2. Thermophilic organisms. Faraday Soc., Trans., 58, 110-115. Jan. 1962.